

**Navy Advancement Center**  
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# **Advancement Handbook for Equipment Operator**

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## **PREFACE**

The purpose of the Advancement Handbook is to help you focus your preparation for Navywide advancement-in-rating examinations. The bibliographies (BIBs) together with this handbook form a comprehensive examination study package. Since this handbook provides skill and knowledge components for each paygrade of the Equipment Operator rating, it helps you concentrate your study on those areas that may be tested. This feature will help you get the most out of your study time.

Each page in Parts 1 through 4 of this Advancement Handbook presents general skill areas, specific skill areas, the knowledge factors associated with each skill area, the pertinent references that address each skill, and the subject areas that may be covered on the examination. The skill statements describe the skills you are expected to perform for each paygrade. The skill statements are cumulative; that is, you are responsible for the skills for the paygrade you are competing for, your present paygrade, and all paygrades below.

Although this handbook is very comprehensive, it cannot cover all the tasks performed in the rating. As a result, the advancement examinations may contain questions more detailed than described in the “*Exam Expectations*” section of the skill areas.

Remember that advancement competition is keen, so your keys to advancement include not only comprehensive advancement examination study but also sustained superior performance.

Prepared by  
Navy Advancement Center Department,  
Naval Education and Training Professional  
Development and Technology Center

**CONTENTS**

PARTS		PAGE
1	Advancement Handbook for EO3.....	1-1
2	Advancement Handbook for EO2.....	2-1
3	Advancement Handbook for EO1.....	3-1
4	Advancement Handbook for EOC.....	4-1
Appendix 1	References Used in This Advancement Handbook	A-1

## Part 1

### Advancement Handbook for EO3

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Technical Administration</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Fill out forms used in dispatch</b>
<i>Knowledge</i> you should have to perform this skill:	Identify NAVFAC 9-11260/4, DD Form 518, and NAVFAC 9-11240/3. <ul style="list-style-type: none"> <li>• Purpose of each form</li> <li>• How to fill it out properly</li> <li>• Who's responsibility to fill it out</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDNCBINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the types and uses of forms used in daily dispatch operations, such as the hard card, daily PM cards, the accident identification card; the procedures for correctly filling out each form, and who has the responsibility for filling out each form.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare materials and equipment for embarkation</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify procedures and techniques used in preparing materials and equipment for embarkation.</p> <ul style="list-style-type: none"> <li>• Cleaning and staging equipment</li> <li>• Building a 463L pallet</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Embarkation Manual, COMSECOND/THIRDNCBINST 3122.1</li> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the cleaning and staging of equipment for a mount-out exercise and the proper way to build a 463L pallet.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate and dispense fuel from a fuel truck</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the proper procedure for operating a fuel truck (gas or diesel).</p> <ul style="list-style-type: none"> <li>• Proper prestart</li> <li>• General operation of the fuel truck</li> <li>• All safety precautions</li> <li>• How to issue fuel</li> <li>• Fill out the fuel logbook</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the operation of the fuel truck, safety precautions involved with refueling from a fuel truck, and the procedures for filling out the fuel logbook.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Support</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Remove and repair tires, tubes and rims</b>
<i>Knowledge</i> you should have to perform this skill:	Identify procedures and techniques for safely removing and repairing tires and rims. <ul style="list-style-type: none"> <li>• Types of tires and how they are mounted</li> <li>• Break down split rims and tires</li> <li>• Patch and plug tubeless and tube type tires.</li> <li>• Proper way to inflate split rimmed tires</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the procedures for breaking down, repairing, remounting, and safely inflating split rimmed tires and tubes, specific types of tires and their uses, and how to use hot patches, cold patches, and tire plug kits.



## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform prestart checks, operator's maintenance and lubrication on automotive, material handling, support and construction equipment</b>
<i>Knowledge</i> you should have to perform this skill:	Know the proper procedure for prestarts and maintenance and lubrication. <ul style="list-style-type: none"> <li>• Which forms to use</li> <li>• Where to find the lube chart</li> <li>• How to use the lube chart</li> <li>• The right lubrications to use</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• CM 3 &amp; 2, NAVEDTRA 12061</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• Testing and Licensing of Construction Equipment, NAVFAC P-306</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the proper prestart, preventive maintenance and lubrication procedures, lube charts, where they are found and how they are used, and what forms are needed for each specific piece of equipment.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Load, secure and transport heavy equipment</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall procedures and safety precautions for the following:</p> <ul style="list-style-type: none"> <li>• Loading and unloading construction equipment</li> <li>• Securing construction equipment to be hauled</li> <li>• Hauling construction equipment</li> <li>• Rules of the road</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• Navy Driver's Handbook, NAVFAC MO-403</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on loading, unloading, securing, and transporting construction equipment using the rules of the road that pertain specifically to the transportation of construction equipment and the safety requirements and restrictions for wide and oversized loads.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Load, secure and transport boxed, loose and palletized materials and perform payload distribution</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Know the proper techniques for the following:</p> <ul style="list-style-type: none"> <li>• Loading and securing loose material on a truck or trailer</li> <li>• The correct placement of a load according to weight limitations</li> <li>• Loading and securing palletized materials</li> <li>• Loading and securing Bulk Standard 20 ft and Bulk Tricons</li> <li>• Safe working loads for tie-downs</li> <li>• Figure gross vehicle weight</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• Embarkation Manual, COMSECOND\THIRDNCBINST 3122.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about loading and securing different loads, figure safe working loads for chains, maximum heights, and widths of specific loads, how to figure the gross vehicle weight, and placement of the load according to the weight limitations.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate a front end loader (FEL) and all front and rear attachments; change front and rear attachments; change cutting edges, caps and shanks on FEL buckets</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Know the procedures and all required safety to do the following:</p> <ul style="list-style-type: none"> <li>• Operate a FEL and attachments</li> <li>• Load a dump truck</li> <li>• Change the attachments on a FEL</li> <li>• Change cutting edges and caps and shanks on a FEL</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about how to approach a stockpile, fill the loader bucket, load a dump truck, change, and operate all the attachments and all the required safety precautions and procedures.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Operate trucks, tractors, semitrailers and place fill material</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Know the safe operating techniques to operate trucks, tractors, and semitrailers.</p> <ul style="list-style-type: none"> <li>• Rules of the road</li> <li>• Proper hand signals used while backing</li> <li>• Backing a tractor and trailer</li> <li>• Couple and uncouple tractor to trailer</li> <li>• Proper operating procedure for dump trucks</li> <li>• Setting a dump bed for spread or rock dump</li> <li>• Place fill materials</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• Navy Driver's Handbook, NAVFAC MO-403</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions on rules of the road; proper backing techniques using hand signals and use of a backing guide while backing a tractor and trailer; how to position a dump truck to be loaded; and how to set the dump truck up to place fill material in specific lift heights.</p>

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate materials handling equipment: rough terrain (R/T), warehouse and lift king forklifts</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Know how to safely operate the following:</p> <ul style="list-style-type: none"> <li>• R/T forklifts</li> <li>• Warehouse forklifts</li> <li>• Lift king forklifts</li> <li>• Capabilities and limitations of each</li> <li>• Use of each</li> <li>• Difference among the three types of forklifts</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the capabilities, use, and limitations of the three types of forklifts; questions on lifting, lift heights, carrying capabilities, positioning, and maneuvering forklifts.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate a grader, replace end bits, cutting edges and change the caps on the scarifier</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the following: <ul style="list-style-type: none"> <li>• All types of grading operations</li> <li>• Parts of the grader to include all the control functions</li> <li>• When and how to change the end bits, cutting edges, and caps on the scarifier</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• EA Basic, NAVEDTRA 10696-A</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the parts and controls of a grader; techniques of grader operation, such as ditching, back-slope cuts, high-bank cuts, road maintenance, blade positions, blade pitch, maximum efficiency with a grader; and proper maintenance of the moldboard.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate a scraper, change cutting edges, place fill material</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the following items and procedures: <ul style="list-style-type: none"> <li>• All controls, major components, and their functions</li> <li>• Cut and load with a scraper</li> <li>• Fill with a scraper</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the different parts of a scraper and their functions, operations of a scraper, controls, and their functions, proper loading and discharging of material from a scraper using the eject and apron to adjust the flow of material.



## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate a dozer with a ripper or a winch; change cutting edges, end bits and replace caps and shanks on rippers; cut and fill with a dozer</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the proper procedures and techniques and all safety precautions for the following: <ul style="list-style-type: none"> <li>• All the different dozer operations</li> <li>• Changing different blade positions</li> <li>• Different types of blades and their uses</li> <li>• Operating the winch or the scarifier</li> <li>• All controls and their functions</li> <li>• Performing all maintenance</li> </ul>
References you should study to gain the knowledge you need to perform this skill	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on all the controls and their functions; different dozer operations including scarifying and winch operations; different types of blades and their uses; different blade positions and when to change cutting edges and the caps on the scarifier.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate air compressors</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the following: <ul style="list-style-type: none"> <li>• Types of compressors and their uses</li> <li>• Capacities of different compressors</li> <li>• Safety precautions</li> <li>• Types of collateral equipment used with an air compressor to include rock drills and all pneumatic tools</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the different types of compressors and their capacities, safety precautions, all the pneumatic tools used with the compressor to include rock drills, their controls, components, limitations, and general operating techniques.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate a ditcher and change teeth and buckets on ditchers</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for the following: <ul style="list-style-type: none"> <li>• Operating a wheel type ditcher</li> <li>• Operating a ladder type ditcher</li> <li>• Operating a chain type ditcher</li> <li>• Changing the teeth and buckets on a ditcher</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the three different types of ditchers, their capabilities, rates of productivity, and how to change or replace the teeth or buckets on a ditcher.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate an earth auger and change the bits on an auger</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for the following: <ul style="list-style-type: none"> <li>• Safely operating an earth auger</li> <li>• Changing bits on an earth auger</li> <li>• Leveling an earth auger</li> <li>• Drilling and retracting</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on how to set up and level the auger; the two types of bits, the different sizes and how they are used and changed; the different controls and what they do; and all safety precautions for operating an earth auger.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate the three types of excavators and their attachments and change the caps and shanks on the bucket</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for the following:</p> <ul style="list-style-type: none"> <li>• Operating a truck-carried excavator</li> <li>• Operating a self-propelled wheel-mounted excavator</li> <li>• Operating a track-mounted excavator</li> <li>• Changing the attachments for each of the three types of excavators</li> <li>• Safety precautions</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the capabilities of the three excavators, maximum depths, degree of work area, digging procedures, foundation excavation, and all safety precautions that apply.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate the different types of rollers; compact fill materials</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the following: <ul style="list-style-type: none"> <li>• Different types of roller and their uses</li> <li>• Procedures for compacting fill materials</li> <li>• Procedures for bituminous rolling (compacting asphalt)</li> <li>• Safety precautions</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about vibratory rollers (smooth drum and sheepsfoot drum), impact forces, vibration response and frequency, maximum depth in inches to be compacted efficiently; the pneumatic and steel-wheeled rollers, rolling techniques, rolling sequence, bituminous rolling, and all safety precautions related to rolling.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Use and maintain slings and riggings</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall procedures and techniques for the following:</p> <ul style="list-style-type: none"> <li>• Different types and grades of wire ropes</li> <li>• Figuring safe working loads for slings</li> <li>• Maintaining slings and riggings</li> <li>• Manufacturing slings</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• Wire Rope &amp; Strand Fed. Spec., RR-W-410D</li> <li>• Management of Weight Handling Equipment, NAVFAC P-307</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on grades and lays of wire rope; strengths, resistance, safe working loads, handling and care of wire rope; wire rope attachments, wedge sockets, speltered sockets, and wire rope clips.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Interpret grade stakes and check grade using a leveling instrument and leveling rod</b>
<i>Knowledge</i> you should have to perform this skill:	Recall procedures for the following: <ul style="list-style-type: none"> <li>• Setting up a leveling instrument</li> <li>• Checking grade with a leveling instrument and leveling rod</li> <li>• Setting and interpreting grade stakes</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• EO Basic, NAVEDTRA 12535</li> <li>• EA Basic, NAVEDTRA 10696-A</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on setup and operation of the Jacob's level, dumpy level, and Philadelphia rod; determine elevations using backsight, foresight, and bench marks; read and interpret construction, guard, line, center line, shoulder, offset, slope, right-of-way, and finish grade (blue top) stakes.



## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform NCF hand signals and backing procedures using a signalman</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the following: <ul style="list-style-type: none"><li>• Hand signals used in the NCF</li><li>• Procedures for backing with a signalman</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• EO Basic, NAVEDTRA 12535</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on all hand signals used in the NCF, backing techniques using a backing guide, and who is required to use a backing guide.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Erect tent camp facilities and install advanced base functional component (ABFC) assemblies</b>
<i>Knowledge</i> you should have to perform this skill:	Identify procedures for the following: <ul style="list-style-type: none"><li>• Erecting tent camps</li><li>• Installing ABFC assemblies</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Facilities Planning Guide, Volumes 1 and 2, NAVFAC P-437</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on man-hours, crew sizes, equipment, and tool requirements for erecting tent camps and other ABFC assemblies using the P-437 as a guide and source of information.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Administer first aid under combat situations</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures to administer first aid to include:</p> <ul style="list-style-type: none"> <li>• CPR</li> <li>• Shock</li> <li>• Abdominal thrust for choking</li> <li>• Hemorrhaging</li> <li>• Hot and cold weather injuries</li> <li>• Treatment of fractures</li> <li>• Burns</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on general first aid such as general air way obstructions and clearing techniques, thrust techniques, CPR, hemorrhage control, and treatment of shock, exposure, fractures, and burns.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform ambush countermeasures</b>
<i>Knowledge</i> you should have to perform this skill:	Recall countermeasures for the following: <ul style="list-style-type: none"><li>• Near ambush</li><li>• Far ambush</li><li>• Defensive countermeasures</li><li>• Evasion</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on counter ambush drills to a near or far ambush, ambush right or left, and actions in and out of the killing zone.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform survival, evasion, resistance and escape procedures</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for survival, evasion, resistance, and escape to include:</p> <ul style="list-style-type: none"> <li>• Avoiding the enemy</li> <li>• Concealment</li> <li>• Evasion travel</li> <li>• Individual and group survival</li> <li>• Water, food, and plants</li> <li>• S.A.T.</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about locating the enemy, signs of movement, evasion techniques, survival, types and preparation of eatable foods and water, escaping, and surviving as a prisoner of war.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform prisoner of war (POW) handling procedures</b>
<i>Knowledge</i> you should have to perform this skill:	Identify POW handling procedures to include: <ul style="list-style-type: none"> <li>• Transportation</li> <li>• Search</li> <li>• Care and feeding</li> <li>• Treatment</li> <li>• Laws of conflict</li> <li>• 6-S's</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the transportation, searching, care and feeding, and treatment of prisoners, the 6 S's, and the laws of conflict concerning enemy POWs.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Install wire entanglements</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for placing the following: <ul style="list-style-type: none"> <li>• Protective wire</li> <li>• Tactical wire</li> <li>• Supplemental wire</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about protective, tactical, and supplemental wire entanglements to include the purpose, where and how to lay them out, required tools and equipment, different kinds of wire, and safety precautions when laying out wire entanglements.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform chemical, biological, and radiological (CBR) defensive measures</b>
<i>Knowledge</i> you should have to perform this skill:	Identify CBR defensive measures to include: <ul style="list-style-type: none"> <li>• Protective measures before, during, and after an attack</li> <li>• Protective equipment</li> <li>• Detection equipment</li> <li>• Decontamination equipment</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the different types of CBR agents, their effects, detection and identification, symptoms of infection, protective measures and equipment, first aid and self aid, detection and decontamination equipment, MOPP procedures, and marking of the contaminated area.



## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of grenadier</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the duties of a grenadier to include: <ul style="list-style-type: none"> <li>• Characteristics of the M-203</li> <li>• Ammunition of the M-203</li> <li>• Safety precautions</li> <li>• Responsibilities of the grenadier</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on squad position and ammunition, operation, parts and safety procedures of the M-203.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of a machine gun team gunner</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the duties of a machine gun team gunner to include: <ul style="list-style-type: none"> <li>• Three types of machine guns</li> <li>• Characteristics</li> <li>• Ammunition</li> <li>• Positioning</li> <li>• Safety precautions</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the M60, MK19 MOD3 40mm and M2HB 50 cal; rates of fire, maximum ranges, collateral equipment, assembly and disassembly, types of ammunition, positioning for a defensive posture, and all safety precautions related to these weapon systems.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of antitank team gunner</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the duties of an antitank team gunner to include:</p> <ul style="list-style-type: none"> <li>• Weapon system</li> <li>• Characteristics</li> <li>• Positioning</li> <li>• Safety precautions</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about characteristics of the 84mm AT4; sighting, controls, operations, target engagement, firing positions, and all safety precautions and misfire procedures.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of fire team automatic rifleman</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the duties and responsibilities of the automatic rifleman to include fire team positions and duties.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the position of the automatic rifleman, responsibilities in the fire team, movement, employment, communications, and discipline with the weapon.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform land-based combat duties under CBR conditions</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the different CBR conditions to include: <ul style="list-style-type: none"> <li>• Mission-oriented protective posture levels</li> <li>• Effectiveness</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the different MOPP levels and authorizations, wear and care of the permeable protective clothing and mask, personal decontamination, chemical and radiological detection devices, and contamination markers.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Place trip flares and other warning devices</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for effectively placing trip flares to include:</p> <ul style="list-style-type: none"> <li>• Types of trip flares</li> <li>• Proper use of flares</li> <li>• Nomenclature of flare and fuse</li> <li>• Strategic locations</li> <li>• Safety precautions</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the types, uses, placement, and safety of trip flares.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform booby trap countermeasures</b>
<i>Knowledge</i> you should have to perform this skill:	Identify booby traps to include: <ul style="list-style-type: none"> <li>• Explosive</li> <li>• Non-explosive</li> <li>• Countermeasures</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the different explosive and non-explosive booby traps, identification, location, and countermeasures for the safe movement of personnel and equipment.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Transport personnel injured in combat</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for transportation of a casualty to include: <ul style="list-style-type: none"><li>• Types of litters</li><li>• Man carries</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on transporting a casualty on various types of litters, and the proper techniques and methods of performing man carries on the injured.



## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform minor repairs on tactical field telephones</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the minor repair procedures for the following: <ul style="list-style-type: none"><li>• TA-312/PT telephone</li><li>• TA-1/PT telephone</li><li>• SB-22/PT switchboard</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on basic minor repair procedures for the various telephones and systems, equipment nomenclature, cable splicing, and DC power requirements.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties as fire direction control (FDC) plotter</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for plotting targets on the M17 plotting board to include:</p> <ul style="list-style-type: none"> <li>• Components of the board</li> <li>• Compute range and distance from the mortar position to the target</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the M17 plotting board, plotting targets on the firing chart, and procedures for preparing firing data.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform the duties as a mortar platoon gunner and misfire procedures for the M224 60mm mortar</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for the following:</p> <ul style="list-style-type: none"> <li>• Setting up the 60mm mortar</li> <li>• Sighting the 60mm mortar</li> <li>• Loading and firing the 60mm mortar</li> <li>• Handling misfires with the 60mm mortar</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the different assemblies and components, different firing modes, types of ammunition and their uses, preparing the ammunition for firing, fire commands, methods for laying in the mortars, procedures for handling misfires, causes of misfires, disposition of the round, dislodging the round, and cleaning the mortar after firing.

## Advancement Handbook for EO3

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Perform field sanitation procedures</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures in field sanitation to include: <ul style="list-style-type: none"> <li>• Latrines</li> <li>• Garbage disposal</li> <li>• Cold climates</li> <li>• Water treatment</li> <li>• Immersion heaters</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the expedient types of latrines, disposal of garbage, types of sewage and garbage disposal in cold climates, purification of water, and proper use of immersion heaters.

## Part 2

### Advancement Handbook for EO2

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Maintain dispatch operations</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for maintaining the following:</p> <ul style="list-style-type: none"> <li>• Dispatch records</li> <li>• Fuel and mileage reports</li> <li>• Equipment hard card and cycle logs</li> <li>• Equipment and attachment status boards</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on maintaining dispatch records, preparing fuel and mileage reports, updating hard card and cycle logs, and maintaining and updating equipment and attachment status boards.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Develop project packages and track level III progress charts</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for the following: <ul style="list-style-type: none"> <li>• Developing a project package</li> <li>• Tracking Level III progress charts</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the contents of all five folders of a project package; development of a project package; Level I, Level II, Level III; tracking Level III's; reading plans, specifications and different types of drawings.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare time cards and sheets</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for filling out a time card.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on reporting direct labor, indirect labor and their labor codes; maintenance of the time cards; and 2-week summary sheets.



## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Technical Administration</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Operate the collateral equipage program</b>
<i>Knowledge</i> you should have to perform this skill:	Define the procedures for collateral equipment to include the following: <ul style="list-style-type: none"> <li>• Issuing</li> <li>• Receiving</li> <li>• Inventory and accountability</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the use of CB-60 cards, re-ordering using NAVSUP Form 1250-1, types of collateral equipment, and the accountability of all collateral equipment.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Environmental Protection</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Update and maintain safety data sheet files</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the safety data sheet procedures for the following: <ul style="list-style-type: none"> <li>• Maintaining</li> <li>• Updating</li> <li>• Posting</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the contents of the safety data sheets, hazards, first aid and medical treatment, when to update and where the sheets are to be maintained.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Environmental Protection</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform hazardous material inventories</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for handling hazardous materials to include the following: <ul style="list-style-type: none"><li>• Inventories</li><li>• Storage</li><li>• Disposal</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Crewleader's Handbook</li><li>• Code of Federal Regulations, 29 CFR</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the handling, storage, and disposal of hazardous materials. You also can expect questions on first aid and medical treatment.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Dispatch automotive and construction equipment</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for dispatching equipment using the following:</p> <ul style="list-style-type: none"> <li>• SAMMS system</li> <li>• Form DD-1970</li> <li>• NAVFAC 11260/4</li> <li>• NAVFAC 9-11240/13</li> <li>• NAVFAC 9-11240/2</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Management of Civil Engineering Support Equipment, NAVFAC P-300</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on all dispatch operations, license requirements, trip ticket files and maintenance, hard card logs, and all forms used in the dispatch office.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Develop and use embarkation network analysis</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for developing and using an embark plan to include the following:</p> <ul style="list-style-type: none"> <li>• Mount-out control center</li> <li>• Equipment cleaning and staging</li> <li>• Pallet building</li> <li>• Load plans</li> <li>• Security</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Embarkation Manual, COMSECOND/COMTHIRDNCBINST 3122.1</li> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on developing an embark plan; operation of the MOCC, cleaning and staging of equipment, load planning, joint inspections, building a 463L pallet, and security.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Develop and use construction network analysis</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for the development and use of a construction network analysis to include the following:</p> <ul style="list-style-type: none"> <li>• Level I, II, III</li> <li>• Precedence diagram</li> <li>• CBCM 2.1</li> <li>• Project package development</li> <li>• CAS sheets</li> <li>• Sitreps</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on developing project packages using the CBCM 2.1 program; developing a master activity list, construction activity list, Levels I, II, and III, and material estimates.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Inventory tool kits</b>
<i>Knowledge</i> you should have to perform this skill:	Identify tool kit elements. <ul style="list-style-type: none"> <li>• Inspections</li> <li>• Tool requisitions</li> <li>• Loss control</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Supply Manual, COMSECOND/COMTHIRDNCBINST 4400.3</li> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the individual elements of a tool kit inventory, custodian responsibilities, conducting proper inventories, requisitioning replacement tools, and tracking replenishment activities.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform operator maintenance and prestart checks on crawler and mobile cranes</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for operator maintenance and prestarts on crawler and mobile cranes to include the following: <ul style="list-style-type: none"> <li>• What forms to use</li> <li>• Where to find the lube charts</li> <li>• How to use the lube charts</li> <li>• Correct lubrications</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• Testing and Licensing of Construction Equipment, NAVFAC P-306</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the proper prestart, preventive maintenance, and lubrication procedures; lube charts, where they are found, and how they are used.



## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform the duties and responsibilities of a yard boss</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the duties and responsibilities of a yard boss to include the following:</p> <ul style="list-style-type: none"> <li>• Cycle logs</li> <li>• Equipment staging</li> <li>• Collateral equipment</li> <li>• Traffic control</li> <li>• Yard cleanliness and upkeep</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDNCBINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on alfa company yard maintenance, frequency of equipment cycling, and responsibilities of the yard boss.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform operator maintenance and prestart checks on construction equipment</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for operator maintenance and prestarts on construction equipment to include the following:</p> <ul style="list-style-type: none"> <li>• Crete mobiles</li> <li>• Transit mixers</li> <li>• Rock drills</li> <li>• Scrapers</li> <li>• Asphalt equipment</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the proper prestart, preventive maintenance, lubrication procedures; lube charts, where they are found and how they are used; and what specific forms are used for each piece of equipment.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Equipment</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate construction equipment</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for operating the following:</p> <ul style="list-style-type: none"> <li>• Distributor truck</li> <li>• Portable crete mobile</li> <li>• Scraper</li> <li>• Rock drill</li> <li>• Rock crusher screening plant</li> <li>• Multipurpose excavator</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions on filling, heating, and spraying emulsion from a distributor truck; loading, hauling, setting up, and mixing concrete with a crete mobile; cutting and filling with a scraper; positioning a rock drill and changing drill steel on a rock drill; and setting up a crushing plant, crushing, and screening capabilities.</p>

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Position and operate mobile and crawler mounted cranes</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for positioning a crane for lifting operations to include the following:</p> <ul style="list-style-type: none"> <li>• Leveling</li> <li>• Proper radius</li> <li>• Overhead obstructions and electrical power lines</li> <li>• Safe working loads</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Management of Construction Equipment, NAVFAC P-300</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on how to level a crane, distances from different high-power lines, correct radiuses for the load to be lifted, computing safe working loads using lifting load charts and SWL formula.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate pile drivers and extractors</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for setting up cranes for the following: <ul style="list-style-type: none"> <li>• Driving pile</li> <li>• Extracting pile</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on different types of piles, pile-driving hammers, and pile extractors; different types of pile-driving leads and how they're mounted; pile-driving terminology and techniques, such as springing, refusal, flying hammer bearing piles, and friction piles.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate and maintain a hand held rotary rock drill and a crawler mounted rock drill</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for operating and maintaining the following: <ul style="list-style-type: none"> <li>• Hand held rotary rock drill</li> <li>• Crawler mounted rock drill</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on classes, types, components and lubrication of rotary drills; set up, traveling, drilling, adding and removing drill steel; controls; and specific safety precautions concerning rock drilling operations.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Change attachments and replace wire rope on cranes</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for changing or replacing the following <ul style="list-style-type: none"> <li>• Attachments</li> <li>• Wire rope</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on types of wire rope, wire rope connections, lubricating wire rope, and wire rope inspection. You also can expect questions on adding boom sections, changing hook blocks, clamshells, draglines, pile-driving leads, tag lines, and fairlead.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Transfer and check elevations with a rod and engineer's level</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for using an engineer's level.</p> <ul style="list-style-type: none"> <li>• Setup</li> <li>• Philadelphia rod</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Engineering Aid Basic, NAVEDTRA 10690-A</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the setup of the level, use of the Philadelphia rod, shooting, foresight, backsight, benchmarks, and using woven or steel tape to measure horizontal distance.



## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform asphalt paving and repair operations</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for paving and repairing asphalt to include the following:</p> <ul style="list-style-type: none"> <li>• Mix designs</li> <li>• Determining asphalt thickness</li> <li>• Prime coat; tack coats</li> <li>• Defects in asphalt pavement and how to repair them</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions on asphalt mix designs, curing compounds, asphalt grades, determining asphalt thickness, rates of applications for prime and tack coats. You also can expect questions on defects in asphalt, alligator cracks, edge cracks, joint cracks, reflection, shrinkage and slippage cracks, channeling, corrugations and shoving, depressions, upheaval, potholes and raveling.</p>

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Apply single and double bituminous-surface treatments</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for applying bituminous treatments to include the following: <ul style="list-style-type: none"><li>• Single</li><li>• Double</li><li>• Binder application</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Equipment Operator Basic, NAVEDTRA 12535</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the sequence of operations, binder application, aggregate application, rolling, types, and calibration of aggregate spreaders.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform soil-stabilization operation</b>
<i>Knowledge</i> you should have to perform this skill:	<b>Identify the procedures for soil stabilization, such as the following:</b> <ul style="list-style-type: none"> <li>• Admix method</li> <li>• Surface penetration application</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on purposes and methods of soil stabilization; in-place, off-site, and windrow mixing; and portland cement applications.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare earthfill requirements by computing volume</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for computing earthfill requirements by computing volumes.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on computing volumes using different formulas.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Compute earthwork and equipment requirements using the NAVFAC P-405</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for computing earthwork and equipment requirements using the P-405 and construction drawings and specifications.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Blueprint Reading and Sketching, NAVEDTRA 82014</li> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on reading and interpreting construction drawings and specifications, equipment, material, and labor resources using the P-405.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct and coordinate installation of advanced based functional components and assemblies</b>
<i>Knowledge</i> you should have to perform this skill:	Recall procedures for directing and coordinating installation of ABFC and assemblies.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Facilities Planning Guide, NAVFAC P-437, Volume I</li> <li>• Facilities Planning Guide, NAVFAC P-437, Volume II</li> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on using the P-437 to find equipment, labor and material resources; determine man-day estimates, and project duration.

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Conduct patrols</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall procedures used to conduct patrols to include the following:</p> <ul style="list-style-type: none"> <li>• Planning and preparation</li> <li>• Classification</li> <li>• Mission</li> <li>• Size</li> <li>• Formation</li> <li>• Control</li> <li>• Security</li> <li>• Movement</li> <li>• Execution of mission</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the procedures used to conduct patrols, such as planning and preparation, patrol classification, mission, size, formation, control, security, movement, and execution of mission (before, during, and after).

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of fire team leader</b>
<i>Knowledge</i> you should have to perform this skill:	Recall the duties and responsibilities of a fire team leader to include the following: <ul style="list-style-type: none"> <li>• Mission</li> <li>• Defensive position</li> <li>• Fire plans</li> <li>• Movement</li> <li>• Formation</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> <li>• Seabee Combat Handbook, Volume 2, NAVEDTRA 12004</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties of a fire team leader, mission, positioning of a fire team on the FLOT, fire plans, movements, and formations.



## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of machine gun team leader</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall the duties and responsibilities of a machine gun team leader to include the following:</p> <ul style="list-style-type: none"> <li>• Weapon characteristics</li> <li>• Weapon placement</li> <li>• Fire plan</li> <li>• Fire command</li> <li>• Fire control</li> <li>• Fire discipline</li> <li>• Fire distribution</li> <li>• Fire technique</li> <li>• Team member responsibility</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about performing the duties and responsibilities of a machine gun team leader, characteristics and placement of the weapon, fire plans, fire commands, fire control, fire discipline, fire distribution, fire technique, and the responsibility of each member of the fire team.

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of antitank team leader</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall the duties and responsibilities of an antitank team leader to include the following:</p> <ul style="list-style-type: none"> <li>• Weapon characteristics</li> <li>• Employment</li> <li>• Operation</li> <li>• Safety</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> <li>• Seabee Combat Handbook, Volume 2, NAVEDTRA 12004</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of an antitank team leader, weapon characteristics, employment and operation of the weapon, and weapon safety.

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Employ claymore mines</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall procedures used for employment of the M18A1 claymore mine to include the following:</p> <ul style="list-style-type: none"> <li>• Nomenclature</li> <li>• Countermeasures</li> <li>• Coverage and methods of fire</li> <li>• Firing device</li> <li>• Installation and firing</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about employment of the M18A1 claymore mine, its nomenclature, countermeasures, coverage and methods of fire, firing device, installation, and firing.

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Position perimeter guards</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for positioning perimeter guards to include the following:</p> <ul style="list-style-type: none"> <li>• Fighting positions</li> <li>• Fields of fire</li> <li>• Fire distribution</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about maximum cover and concealment, constructing a defensive position, dug-in emplacements, observation, fields of fire, rifle fire, platoon firing, and extent of target.

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Lay out protective and tactical wire entanglements</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall the requirements and procedures used in placing protective and tactical wire entanglements to include the following:</p> <ul style="list-style-type: none"> <li>• Supplementary</li> <li>• Depth</li> <li>• Effectiveness</li> <li>• Uses</li> <li>• Barbed wire</li> <li>• Concertina fencing</li> <li>• Barbed steel tape</li> <li>• Placement</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions about the requirements and procedures used in placing protective and tactical wire entanglements, supplementary wire, depth, effectiveness, uses, and different wire used, such as placing barbed wire, concertina wire, and barbed steel tape.</p>

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Lay out trip flares and other warning devices</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall procedures used to set trip flares and warning devices to include the following:</p> <ul style="list-style-type: none"> <li>• Uses</li> <li>• Location</li> <li>• Explosive devices</li> <li>• Non-explosive devices</li> <li>• Countermeasures</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about trip flares and warning devices, their uses and location, explosive and non-explosive devices, and countermeasures.

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of mortar crew leader/gunner</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall the duties and responsibilities of mortar crew leader and gunner to include the following:</p> <ul style="list-style-type: none"> <li>• Description and characteristics of the 60-mm mortar</li> <li>• Assemblies and components</li> <li>• Ammunition</li> <li>• Equipment</li> <li>• Positioning</li> <li>• Preparation for firing</li> <li>• Sighting</li> <li>• Loading and firing</li> <li>• Safety</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions about the duties and responsibilities of a mortar crew leader or gunner; description and characteristics of the weapon, assemblies and components; ammunition; equipment; positioning; preparation for firing; sighting; loading and firing; and safety.</p>

## Advancement Handbook for EO2

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Maneuver fire team using arm and hand signals</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Recall procedures to maneuver fire teams using arm and hand signal to include the following:</p> <ul style="list-style-type: none"> <li>• Speed</li> <li>• Direction</li> <li>• Enemy in sight</li> <li>• Assemble</li> <li>• Column</li> <li>• Echelons</li> <li>• Wedge</li> <li>• Vee</li> <li>• Fire team</li> <li>• Open</li> <li>• Close</li> <li>• Rally point</li> <li>• Objective rally point</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about maneuvering fire teams using arm and hand signals and fire team positions.



## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel on cut and fill operations</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the skills needed to instruct personnel on cut and fill operations with the following: <ul style="list-style-type: none"> <li>• Graders</li> <li>• Scrapers</li> <li>• Dozers</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on cut and fill operations and hand signals with a grader, scraper, and dozer.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel in the operation of automotive, construction, material handling, and support equipment</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the skills needed to instruct personnel in the operation of the following:</p> <ul style="list-style-type: none"> <li>• Dump trucks</li> <li>• Tractor trailers</li> <li>• Ditchers and Excavators</li> <li>• Auger trucks</li> <li>• Dozers, scrapers, and graders</li> <li>• Forklifts and loaders</li> <li>• Fuel and water distributors</li> <li>• Asphalt paver, screed, lute, and rakes</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Navy Driver's Handbook, NAVFAC MO-403</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the operation and the operational techniques of all automotive, construction, weight handling, and support equipment

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel on operator maintenance and lubrication procedures</b>
<i>Knowledge</i> you should have to perform this skill:	<b>Identify the skills needed to instruct personnel on operator maintenance and lubrication procedures on the following equipment:</b> <ul style="list-style-type: none"> <li>• Automotive</li> <li>• Construction</li> <li>• Material handling</li> <li>• Support</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Construction Mechanic 3 &amp; 2, NAVEDTRA 12061</li> <li>• Navy Driver's Handbook, NAVFAC MO-403</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on preventive maintenance, prestart procedures, lubrication charts, and lubrication procedures.

## Advancement Handbook for EO2

General EO <i>Skill Area</i>	<b>Graphics</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Draw simple shop sketches</b>
<i>Knowledge</i> you should have to perform this skill:	Identify procedures for drawing simple shop sketches to include the following: <ul style="list-style-type: none"> <li>• Cut and fill areas</li> <li>• Overlays</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Engineering Aid Basic, NAVEDTRA 10696-A</li> <li>• Blueprint Reading and Sketching, NAVEDTRA 12014</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on different symbols used on freehand sketches, such as material and power distribution symbols.

## Part 3

### Advancement Handbook for EO1

## Advancement Handbook for EO1

General EO1 Skill Area	<b>Technical Administration</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Administer licensing programs for motor vehicles and construction equipment operators</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for administering licensing programs to include the following: <ul style="list-style-type: none"> <li>• Required forms</li> <li>• Testing requirements</li> <li>• Training</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• NMCB Equipment Management, COMSEC/COMTHIRDNCBINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on all the forms required for a license: NAVFAC 11240/10, NAVFAC 11260/1, NAVFAC 11260/2, NAVFAC 11260/3, Standard Form 47, and OF-36. You also can expect questions on automotive, construction equipment, and performance qualification tests; license upgrading; cancellation, suspension, and renewal; training programs; OJT; and training licenses.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare work requests and job orders</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for filling out work requests and job orders.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Organization and Functions of Public Works Departments, NAVFAC P-318</li> <li>• Facilities Management, NAVFAC MO-321</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the work request forms: NAVFAC 9-11240/20, NAVFAC 11014/21, and NAVFAC 11014/38; different job orders; emergency service; minor work; specific and standing job orders.

# Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare and use construction network analysis</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures used in construction network analysis to include the following: <ul style="list-style-type: none"> <li>• Logic network</li> <li>• Forward and backward pass</li> <li>• Critical path</li> <li>• Resource leveling</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> <li>• Facilities Management, NAVFAC MO-321</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on Level II and III bar charts; precedence diagrams; early and late starts; different logic types; free float, total float and lag time; resource leveling; equipment manpower; and materials.



## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Research part numbers for collateral equipage</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for researching part numbers for collateral equipage to include the following:</p> <ul style="list-style-type: none"> <li>• Technical manuals</li> <li>• Manufacturer's manuals</li> <li>• Master collateral listing</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• NMCB Equipment Management, COMSEC/COMTHIRDNCBINST 11200.1</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the use of the technical manuals, manufacturer's manuals, and the master collateral listing to order collateral equipage.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Conduct personnel readiness capability program (PRCP) interviews</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for conducting PRCP interviews as follows: <ul style="list-style-type: none"> <li>• Individual rating skills interview</li> <li>• Other interviews</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Personnel Readiness Capability Program (PRCP), Volume I, NAVFAC P-458</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the two types of interviews: individual and other; rating skill; general skills; individual special skills; military skills; and crew experience skills.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare excess material reports</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for preparing excess material reports.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Construction Battalion Unit Handbook, NAVFAC P-314</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the development of the material excess list and the storage and usage of excess materials.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Review construction equipment and material usage through drawing and analysis</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for reviewing construction equipment and material usage through drawing and analysis to include the following:</p> <ul style="list-style-type: none"> <li>• P-405</li> <li>• Prints and specs</li> <li>• Construction Activity Sheets (CAS)</li> <li>• QC inspection reports</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on using the P-405, prints and specs to estimate equipment and material usage, and the QC reports and CAS sheets to review equipment and material usage.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Maintain project packages and level III progress charts</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for updating and maintaining project packages and Level III charts.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• Construction Battalion Unit Handbook, NAVFAC P-314</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the NCF 5 folder package to include maintenance and updating Level III bar charts and project packages using sitrep feeders, CAS sheets, QC and safety reports, time cards, master activity status sheets, and Level II's.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare and submit field adjustment requests (FAR) and design change drawings (DCD)</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for preparing and submitting FARs and DCDs.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the preparation, submission, and approval of all FARs and DCDs.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Environmental Protection</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Monitor environmental protection control programs for compliance</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for monitoring the environmental protection program for compliance to include the following:</p> <ul style="list-style-type: none"> <li>• MSDS</li> <li>• Hazardous warning markings and labels</li> <li>• Hazardous material storage and turn-ins</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• NCF Occupational Safety and Health Program Manual, COMSECOND/COMTHIRDNCBINST 5100.1</li> <li>• Mishap Investigating and Reporting, OPNAVINST 5102.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the correct storage, handling, usage, and disposition of hazardous material and waste.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct equipment preparation for embarkation</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for directing equipment preparation for embarkation to include the following:</p> <ul style="list-style-type: none"> <li>• Maintenance</li> <li>• Collateral</li> <li>• Staging</li> <li>• Joint inspections</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on loading equipment for embarkation, maintenance procedures, collateral equipage, different staging areas, and joint inspections.



## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Red line construction drawings</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for red lining construction drawings to include the following: <ul style="list-style-type: none"><li>• Minor design changes</li><li>• Field adjustments</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Engineering Aid Basic, NAVEDTRA 10696-A</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about red lining construction project drawings to show as-built conditions through the duration of the project.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct equipment live storage program</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for directing a live storage program to include the following: <ul style="list-style-type: none"> <li>• Maintenance procedures</li> <li>• Cycle procedures</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• NCF Equipment Management Manual, COMSECOND/COMTHIRDNCBINST 11200.22</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the operation of the live storage program, such as PM scheduling, cycle logs, and equipment codes.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Conduct NCF tool kit inspection programs</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for conducting tool kit inspections to include the following:</p> <ul style="list-style-type: none"> <li>• Monthly inventories</li> <li>• Accountability</li> <li>• Security</li> <li>• Serviceability</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on how to perform tool kit inventories, accountability, serviceability, and re-order procedures.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare equipment, manpower and material estimates from prints and specifications</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for preparing equipment, manpower, and material estimates to include the following: <ul style="list-style-type: none"> <li>• Reading and interpreting prints and specifications</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about reading and interpreting prints and specifications using the P-405.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Check elevations with a rod and engineers level from construction prints</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for checking elevations with a rod and engineer's level to include the following:</p> <ul style="list-style-type: none"> <li>• Setup</li> <li>• Foresight</li> <li>• Backsight</li> <li>• Benchmark</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Naval Construction Force/Seabee1 &amp; C, NAVEDTRA 12543</li> <li>• Engineering Aid Basic, NAVEDTRA 10696-A</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on how to set up and level the engineer's level, use benchmarks, shoot a backsight and foresight, and read and interpret prints for correct elevations.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct and coordinate installation of advanced based functional component (ABFC) facilities</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for directing and coordinating installation of ABFC facilities, such as the following:</p> <ul style="list-style-type: none"> <li>• Field structures (seahuts, strong backs, troop housing, etc.)</li> <li>• K-spans</li> <li>• Towers and bunkers</li> <li>• Airfields</li> <li>• Operational facilities</li> <li>• Fuel storage areas</li> <li>• Fleet hospital</li> <li>• Facilities</li> <li>• Piers and wharf facilities</li> <li>• Railroad facilities (to support fleet operations)</li> <li>• Communication facilities</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Facilities Planning Guide, Volumes I and II, NAVFAC P-437</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the procedures used to construct field structures, K-spans, and towers and bunkers; repair war damaged structures and facilities, such as airfields, operational facilities, POL pipelines, fuel storage areas, fleet hospitals, railroads, and communication facilities.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Determine the safe working load (SWL) for simple lifting devices and crane operations</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for determining the SWL for simple lifting devices and crane operations to include the following:</p> <ul style="list-style-type: none"> <li>• Hook blocks</li> <li>• Slings and wire rope</li> <li>• Load charts</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Using Wire Rope Slings and Rigging Hardware in the NCF, COMCBPAC/COMCBLANTINST 11200.11</li> <li>• Management of Weight Handling Equipment, Maintenance, and Certification, NAVFAC P-307</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on computing the SWL for hook blocks, slings, and wire rope using the proper SWL formulas and the crane lifting load charts.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Inspect crane setup for safe lifting operations</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for setting up a crane for safe lifting operation to include the following: <ul style="list-style-type: none"> <li>• Leveling the crane</li> <li>• Overhead clearance</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Management of Weight Handling Equipment, Maintenance, and Certification, NAVFAC P-307</li> <li>• Using Wire Rope Slings and Rigging Hardware in the NCF, COMCBPAC/COMCBLANTINST 11200.11</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about how to level a crane, the safe distance from different voltage power lines, and checking the radius to the load to be lifted.



## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Provide technical advice on construction techniques</b>
<i>Knowledge</i> you should have to perform this skill:	Identify sound technical construction techniques.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about road, bridge, and other construction techniques.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Review customer specifications for construction</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for reviewing specifications for construction.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Equipment Operator Advanced, NAVEDTRA 12537</li><li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on reviewing and interpreting specifications for proper planning of construction projects.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Construction Operation</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Operate and perform minor maintenance and lubrication on all NCF construction plants</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for operating and performing minor maintenance on the following:</p> <ul style="list-style-type: none"> <li>• Asphalt plants</li> <li>• Concrete batch plants</li> <li>• Rock crusher plants</li> <li>• Rock crusher washing plants</li> <li>• Rock crusher screening plants</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions on the parts of an asphalt plant, operation mix designs, calibrations, and types of binders; parts and operation of the mobile concrete batch plant, mix design, types of cement, additives, and mixing concrete; parts and operation of a crusher and screening unit and the aggregate wash plant, plant size and type, tons of material per hour, type of crushed material, wash plant layout, and capacities.</p>

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare rough maps, field sketches, and overlays</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Explain the procedures used to prepare rough maps, field sketches, and overlays to include the following:</p> <ul style="list-style-type: none"> <li>• Cover and concealment</li> <li>• Obstacles</li> <li>• Avenues of approach</li> <li>• Panoramic</li> <li>• Topographic</li> <li>• Overlay uses</li> <li>• Register marks</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the preparation and typical use of maps, field sketches, and overlays utilizing cover and concealment, showing obstacles and how to overcome them, avenues of approach, panoramic and topographic sketches and maps, and overlay requirements.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform the duties as rifle squad leader</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Explain the duties and responsibilities of a rifle squad leader to include the following:</p> <ul style="list-style-type: none"> <li>• Ideal squad composition</li> <li>• Discipline</li> <li>• Appearance</li> <li>• Training</li> <li>• Control</li> <li>• Squad conduct</li> <li>• Weapons</li> <li>• Equipment</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of the rifle squad leader, the ideal number of personnel assigned, discipline, appearance, squad training, control, conduct, weapons, equipment, fire control, fire discipline, and squad movement.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of the rifle platoon guide</b>
<i>Knowledge</i> you should have to perform this skill:	Describe the duties and responsibilities of the rifle platoon guide to include the following: <ul style="list-style-type: none"> <li>• Administration</li> <li>• Supply and timely resupply</li> <li>• Casualty record</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of the rifle platoon guide, administration, supply, timely resupply, casualty reporting, and weapon assignment.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of the rifle platoon petty officer</b>
<i>Knowledge</i> you should have to perform this skill:	Describe the duties and responsibilities of a rifle platoon petty officer to include the following: <ul style="list-style-type: none"> <li>• Assistant to the platoon commander</li> <li>• Squad position</li> <li>• Weapons qualification</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of the rifle platoon petty officer, squad position, and weapons qualification. Questions may cover the responsibilities of the platoon commander since, as assistant to the platoon commander, you must know the responsibilities of the platoon commander and act as platoon commander in his/her absence.

# Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of the machine gun squad leader</b>
<i>Knowledge</i> you should have to perform this skill:	Explain the duties and responsibilities of the machine gun squad leader to include the following: <ul style="list-style-type: none"><li>• Selection and assignment of positions and targets</li><li>• Weapons qualification</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of the machine gun squad leader: selecting and assigning positions and targets, and weapons qualifications.



## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of the antitank squad leader</b>
<i>Knowledge</i> you should have to perform this skill:	Describe the duties and responsibilities of the antitank squad leader to include the following: <ul style="list-style-type: none"> <li>• Basic duties</li> <li>• Selection and assignment of positions and targets</li> <li>• Weapons qualification</li> <li>• Other equipment</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of the antitank squad leader: the basic duties, selection and assignment of positions and targets, weapons qualification, and other assigned duties.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties of the weapons platoon petty officer</b>
<i>Knowledge</i> you should have to perform this skill:	Describe the duties and responsibilities of the weapons platoon petty officer to include weapons qualification.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the duties and responsibilities of the weapons platoon petty officer, weapons qualification, and other duties such as those described by the rifle platoon petty officer.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct installation of protective and tactical wire entanglements</b>
<i>Knowledge</i> you should have to perform this skill:	Determine the requirements for placing protective and tactical wire entanglements to include the following: <ul style="list-style-type: none"><li>• Uses</li><li>• Construction</li><li>• Types</li><li>• Classification</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the installation of protective and tactical wire entanglements, their uses, construction, types, and classification.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct perimeter guards</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for instructing perimeter guards to include the following:</p> <ul style="list-style-type: none"> <li>• Fighting emplacements</li> <li>• Fields of fire</li> <li>• Fire distribution</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about maximum cover and concealment, constructing a defensive position, dug-in emplacements, observation, fields of fire, rifle fire, platoon firing, and extent of target.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct installation of trip flares and other warning devices</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Determine the requirements for the placement of trip flares and other warning devices to include the following:</p> <ul style="list-style-type: none"> <li>• Grenades</li> <li>• Claymore mines</li> <li>• Trip flares</li> <li>• Booby traps</li> <li>• Explosive and non-explosive devices</li> <li>• Countermeasures</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the requirements and uses when placing trip flares and other warning devices, such as grenades, claymore mines, trip flares, booby traps, explosive and non-explosive devices, and countermeasures.

## Advancement Handbook for EO1

General BU <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct placement of aiming stakes</b>
<i>Knowledge</i> you should have to perform this skill:	Explain the purpose for the use of aiming stakes to include the following: <ul style="list-style-type: none"><li>• Limits</li><li>• Night fire</li></ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"><li>• Seabee Combat Handbook, Volume 1, NAVEDTRA 12003</li></ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the proper uses of aiming stakes.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel on construction network analysis</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for using construction network analysis to include the following: <ul style="list-style-type: none"> <li>• Logic network</li> <li>• Forward and backward pass</li> <li>• Critical path</li> <li>• Resource leveling</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> <li>• Facilities Management, NAVFAC MO-321</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on Level II and III bar charts; precedence diagrams, early and late starts, different logic types, free float, total float, and lag time; resource leveling; equipment, manpower, and materials.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel on equipment, manpower and material estimates from drawings and specifications</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for obtaining equipment, material, and manpower estimates from drawings and specifications.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Planner's and Estimator's Handbook, P-405</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about reading and interpreting prints and specifications using the P-405.



## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel on computing earthwork requirements</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for computing earthwork requirements.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Blueprint Reading and Sketching, NAVEDTRA 82014</li> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on reading and interpreting construction drawing and specifications, equipment, material, and labor resources using the P-405.

## Advancement Handbook for EO1

General EO1 <i>Skill Area</i>	<b>Training</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Instruct personnel in operation of weight handling equipment</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for operating weight handling equipment.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Management of Weight Handling Equipment, Maintenance, and Certification, NAVFAC P-307</li> <li>• Use of Wire Rope Slings and Rigging Hardware in the NCF, COMCBPAC/COMCBLANTINST 11200.11</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on computing SWL, crane setup, overhead obstructions (power lines), crane certifications and procedures, and prestart and maintenance.

## Part 4

### Advancement Handbook for EOC

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Administer personnel readiness capability programs (PRCP), and determine training activities based on (PRCP) data analysis</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for administering PRCP programs and determining training requirements based on the (PRCP) data analysis.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Personnel Readiness Capabilities Program, Volume II, NAVFAC P-458</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the two types of interviews: individual and other; rating skill; general skills; individual special skills; military skills; and crew experience skills.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Prepare and administer project level II progress charts</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for preparing and administering project Level II progress charts.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Planner's and Estimator's Handbook, NAVFAC P-405</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• Construction Battalion Unit Handbook, NAVFAC P-314</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on developing Level II progress charts, using man-day and duration estimates; updating to show percent scheduled, percent complete, man-days scheduled, cumulative, actual earned, and work in place.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Technical Administration</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Use network analysis to manage construction projects</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for using network analysis to manage construction projects.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on construction management through the use of Level II bar charts, Level III's, precedence diagrams, and two-week projections.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Technical Administration</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Coordinate the preparation of material and equipment for embarkation</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures to coordinate the preparation of material and equipment for embarkation to include the following: <ul style="list-style-type: none"> <li>• Mount-out control center (MOCC)</li> <li>• Equipment preparation</li> <li>• Pallet building</li> <li>• Prestaging</li> <li>• Joint inspection</li> <li>• Staging and loading aircraft and ships</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• Embarkation in U.S.Naval Ships, OPNAVINST 5720.2</li> <li>• Embarkation Manual, COMSECOND/COMTHIRDNCBINST 3120.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the operation of the MOCC, preparation of equipment, building and weighing pallets, prestaging and staging, and joint inspections.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Management and Supervision</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Assist in the management and operation of a Public Works Department</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for the management and operation of a Public Works Department to include the following: <ul style="list-style-type: none"> <li>• Maintenance</li> <li>• Planning and estimating</li> <li>• Work requests</li> <li>• Job orders</li> <li>• Environmental and waste treatment</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• Inspection of Shore Facilities, Volume I, NAVFAC MO-322</li> <li>• Organization and Functions for Public Works Departments, NAVFAC P-318</li> <li>• Solid Waste Disposal, DM-5.10</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about maintenance management, reporting procedures, planning, preventive maintenance inspections, customer requests, work requests, different job orders, and waste treatment.



## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Management and Supervision</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Administer transportation pool operations</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for administering transportation pool operations to include the following:</p> <ul style="list-style-type: none"> <li>• Dispatch</li> <li>• Yard operations</li> <li>• Collateral</li> <li>• License examiner/accident investigator</li> <li>• Roadmaster</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDNCBINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about dispatch and alpha company yard operations, collateral equipment program, licensing procedures and limitations, accident investigations, and the roadmaster program.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Environmental Protection</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Manage environmental protection programs at Naval Construction Force/Public Works (NCF/PW) construction sites, work areas and shops</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for monitoring the environmental protection program for compliance to include the following:</p> <ul style="list-style-type: none"> <li>• MSDS</li> <li>• Hazardous warning markings and labels</li> <li>• Hazardous material storage and turn-ins</li> <li>• Hazardous spill reporting and cleanup</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• NCF Occupational Safety and Health Program Manual, COMSECOND/COMTHIRDNCBINST 5100.1</li> <li>• Mishap Investigating and Reporting, OPNAVINST 5102.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about the correct storage, handling, usage and disposition of hazardous material and waste; hazardous spill prevention, reporting, and cleanup.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Direct crane certification programs</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for directing the crane certification programs to include the following:</p> <ul style="list-style-type: none"> <li>• Certifying officer</li> <li>• Test director</li> <li>• Checklist</li> <li>• Frequency of tests</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• Management of Weight Handling Equipment, Maintenance, and Certification, NAVFAC P-307</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDNCBINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the crane certification, load test, hook block, and wire rope; personnel requirements; and frequency of tests.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Support</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Provide technical advice on Equipment Operator maintenance techniques</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for proper Equipment Operator maintenance techniques to include the following:</p> <ul style="list-style-type: none"> <li>• Preventive maintenance</li> <li>• Hard cards</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Basic, NAVEDTRA 12535</li> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Construction Mechanic 3 &amp; 2, NAVEDTRA 10644-G1</li> <li>• Management of Transportation Equipment, NAVFAC P-300</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDNCBINST 11200.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on equipment maintenance techniques to include PMs, PM cards, hard cards, prestarts, and general equipment conditions.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Operations</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Direct and coordinate installation of Advanced Based Functional Components (ABFC)</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for directing and coordinating installation of ABFC facilities, such as the following:</p> <ul style="list-style-type: none"> <li>• Field structures (seahuts, strong backs, troop housing, etc.)</li> <li>• K-spans</li> <li>• Towers and bunkers</li> <li>• Airfields</li> <li>• Operational facilities</li> <li>• Fuel storage areas</li> <li>• Fleet hospital</li> <li>• Facilities</li> <li>• Piers and wharf facilities</li> <li>• Railroad facilities (to support fleet operations)</li> <li>• Communication facilities</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Facilities Planning Guide, Volumes I and II, NAVFAC P-437</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	<p>You can expect questions about the procedures used to construct field structures, K-spans, and towers and bunkers; repair war damaged structures and facilities, such as airfields, operational facilities, POL pipelines, fuel storage areas, fleet hospitals, railroads, and communication facilities.</p>

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Operations</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Organize and control deployment of material and equipment for construction projects</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for organizing and controlling the deployment of material and equipment for construction projects to include the following:</p> <ul style="list-style-type: none"> <li>• Construction Activity Sheets (CAS)</li> <li>• Construction scheduling</li> <li>• Request chits</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Supply Manual, COMSECOND/COMTHIRDNCBINST 4400.3</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on material requests (1250-1) and scheduled deliveries from MLO; equipment requests and deliveries from alpha company; and using your CAS sheets to resource level.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Operations</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Coordinate battalion project and material turnovers</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for coordinating battalion projects and material turnovers to include the following:</p> <ul style="list-style-type: none"> <li>• Material turn in and inventory</li> <li>• Project percent complete</li> <li>• Turnover letter</li> <li>• Punch list items</li> <li>• BOD letter</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Equipment Operator Advanced, NAVEDTRA 12537</li> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> <li>• NMCB Equipment Management, COMSECOND/COMTHIRDNCBINST 11200.1</li> <li>• Naval Construction Force Manual, NAVFAC P-315</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on material inventories and return and drawings of materials from MLO using 1250-1; completion percentages turnover letter and BOD letter.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Operations</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform construction project inspections</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for inspecting construction projects to include the following:</p> <ul style="list-style-type: none"> <li>• Proper construction methods</li> <li>• Safety</li> <li>• Evaluation of completed work</li> <li>• Prints and specifications</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• NCF Occupational Safety and Health Program Manual, COMSECOND/COMTHIRDNCBINST 5100.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on interpreting the prints and specifications, use of proper construction methods, evaluating work in place, and ensuring all safety requirements are utilized.



## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Operations</b>
<i>A skill</i> you are expected to perform from the General Skill Area above:	<b>Provide technical advice on interpretation of plans and specifications</b>
<i>Knowledge</i> you should have to perform this skill:	Identify the procedures for interpreting plans and specifications.
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• NCF Occupational Safety and Health Program Manual, COMSECOND/COMTHIRDNCBINST 5100.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the redicheck plan and specification review for project planning and use of safe construction techniques on the project.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Quality Assurance</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Administer construction quality control (QC) programs</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the procedures for administering a quality control program to include the following:</p> <ul style="list-style-type: none"> <li>• QC plan</li> <li>• QC inspections</li> <li>• QC preparatory meetings</li> <li>• Proper construction methods</li> <li>• Required training</li> <li>• FARs</li> <li>• DCDs</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Naval Construction Force/Seabee 1 &amp; C, NAVEDTRA 12543</li> <li>• Seabee Crewleader's Handbook</li> <li>• Code of Federal Regulations, 29 CFR</li> <li>• NCF Occupational Safety and Health Program Manual, COMSECOND/COMTHIRDNCBINST 5100.1</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on QC plans, inspections, and preparatory meetings; compliance of proper construction and safety procedures; submission of FARs and DCDs to the ROICC and assurance that all required training takes place.

## Advancement Handbook for EOC

General EO <i>Skill Area</i>	<b>Construction Combat Readiness</b>
A <i>skill</i> you are expected to perform from the General Skill Area above:	<b>Perform duties as platoon commander</b>
<i>Knowledge</i> you should have to perform this skill:	<p>Identify the duties of a platoon commander to include the following:</p> <ul style="list-style-type: none"> <li>• Rifle platoon commander</li> <li>• Weapons platoon commander</li> <li>• Mortar platoon commander</li> </ul>
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> <li>• Seabee Combat Handbook, Volume 2, NAVEDTRA 12003</li> </ul>
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on the duties and responsibilities of a platoon commander, such as training, discipline, control tactical deployment, and in combat situations in the FDC.

## Appendix 1

### References Used in This Advancement Handbook

<b>Rating</b>	<b>Short Title</b>	<b>Long Title</b>	<b>Chapters/ Paragraphs</b>	<b>Stocking Point</b>
<b>EO3</b>	NAVEDTRA 10644-G1	Construction Mechanic 3 & 2	Chapter 12	Note 1
<b>EO3</b>	NAVEDTRA 10696-A	Engineering Aid Basic	Chapter 14	Note 1
<b>EO3</b>	NAVEDTRA-12535	Equipment Operator Basic	All	Note 1
<b>EO3</b>	NAVFAC P-300	Management of Transportation Equipment	Chapter 3	Note 1
<b>EO3</b>	NAVFAC P-307	Management of Weight Handling Equipment, Maintenance, and Certification	All	Note 1
<b>EO3</b>	NAVFAC-MO-403	Navy Driver's Handbook	All	Note 1
<b>EO3</b>	NAVEDTRA 12003	Seabee Combat Handbook, Volume 1	All	Note 1
<b>EO3</b>	COMSECOND/COMTHIRD NCBINST 11200.1	Naval Mobile Construction Battalion Equipment Management	All	Note 3
<b>EO3</b>	COMSECOND/COMTHIRD NCBINS 1200.11C	Use of Wire Rope Slings and Rigging Hardware in the Naval Construction Force	All	Note 3
<b>EO3</b>	NAVFAC P-437	Facilities Planning Guide, Volume II	All	Note 4
<b>EO3</b>		Seabee Crewleader's Handbook	Chapter 6	Note 4
<b>EO3</b>	29 CFR	Code Of Federal Regulations	All	Note 5
<b>EO2</b>	NAVEDTRA 12014	Blueprint Reading and Sketching	Chapter 2	Note 1
<b>EO2</b>	NAVFAC P-315	Naval Construction Force Manual	Chapter 8	Note 1
<b>EO2</b>	NAVEDTRA 12971	Naval Safety Supervisor	Chapter 5	Note 1
<b>EO2</b>	NAVEDTRA 12004	Seabee Combat Handbook, Volume 2	All	Note 1
<b>EO2</b>	NAVFAC P-405	Seabee Planner's and Estimator's Handbook	All	Note 3
<b>EO2</b>	COMSECOND/COMTHIRD NCBINST 4400.3	Seabee Supply Manual	Chapter 6	Note 3
<b>EO2</b>	COMSECOND/COMTHIRD NCBINST 5100.1	Naval Construction Force Occupational Safety and Health Program Manual	Chapter 15D	Note 3
<b>EO2</b>	COMSECOND/COMTHIRD NCBINST 3122	Embarkation Manual	All	Note 3
<b>EO2</b>		Seabee Crewleader's Handbook	All	Note 4

<b>EO1</b>	NAVFAC P-314	Construction Battalion Unit Handbook	Chapter 4	Note 1
<b>EO1</b>	NAVEDTRA 10696-A	Engineering Aid Basic	Chapters 10, 11, 12, 13, 14	Note 1
<b>EO1</b>	NAVEDTRA 12537	Equipment Operator Advanced	All	Note 1
<b>EO1</b>	NAVFAC MO-321	Facilities Maintenance	All	Note 1
<b>EO1</b>	NAVFAC MO-322	Inspection of Shore Facilities, Volume I	All	Note 1
<b>EO1</b>	NAVEDTRA-12543	Naval Construction Force/Seabee 1 & C	All	Note 1
<b>EO1</b>	NAVFAC P-318	Organization and Functions for Public Works Departments	All	Note 1
<b>EO1</b>	OPNAVINST 5102.1	Mishap Investigating and Reporting	All	Note 2
<b>EO1</b>	COMSECOND/COMTHIRD NCBINST 5100.1	Naval Construction Force Occupational Safety and Health Program Manual	All	Note 3
<b>EO1</b>	NAVFAC P-458	Personnel Readiness Capabilities Program, Volumes I & II	All	Note 4
<b>EOC</b>	DM-5.10	Solid Waste Disposal	All	Note 1
<b>EOC</b>	OPNAVINST 5720.2	Embarkation in U.S. Naval Ships	All	Note 2

**LEGEND:**

Note 1 – To order, MILSTRIP to Naval Inventory Control Point (NAVICP) Philadelphia, PA or via INTERNET – <http://www.nll.navsup.navy.mil>

Note 2 – Available via INTERNET – <http://neds.nebt.daps.mil/>

Note 3 – Letter request to: Commander, Second Naval Construction Brigade, 1310 8th Street, Suite 100, Norfolk, VA 23521-2435

Note 4 – Civil Engineers Support Office (CESO)  
DSN: 551-1815 Commercial: (805) 982-1815

Note 5 – Available via INTERNET – <http://law.house.gov/4.htm>